

24 March 1972

MEMORANDUM FOR THE RECORD

SUBJECT: Trip Report -

1. The _____ group will undertake preliminary evaluation of Kirlian electrophotography of organic materials in an attempt to verify some of the Russian claims for this technique. Within the limits of the remaining contract funds, investigations will be undertaken concerning: (a) discrimination of plant material treated with organophosphorus compounds; (b) differential Kirlian signatures between a variety of plant life; (c) changes in signature as a function of health or disease of the plant; (d) investigation of the "holography phenomena" in which a photograph of the entire object is registered on the film when portions of the object are absent; and (e) film signatures of human hands or other body parts under normal conditions and when treated with local anesthesia or restricted blood supply.

2. Mr. _____ has agreed to cooperate with in permitting utilization of his apparatus in this work. Mr. _____ is not witting of Agency sponsorship.

3. The _____ has constructed a working prototype model of the Kirlian apparatus which was demonstrated in the course of my visit. The electrophotographs showed the Kirlian effect with a quality almost equal to those produced by the _____ equipment. In addition, _____ planted bean and raddish seeds several weeks ago which are being grown under artificial light in the laboratory. Half of the plants will be treated with an organophosphorus pesticide compound (varying concentration and time of exposure) and compared with a control group of plants to determine if there are significant differences in the Kirlian signature.

I can write a formal trip report if you wish but it would simply be a rehash of the material in this report. Although, the Quarterly Report and plans are written as if the material was to be presented to me in that fashion during my recent visit. As a matter of fact they had a maze of alternatives and what appears in this report is the result of our conversations. General comments: Replacement of benefit: Dr. [redacted] was one of the original investigators of [redacted] when he was in Portland and has used it in the laboratory: I'm not surprised that they could only come up with two new concepts—a great many competent people have considered the problem: The systems analysis will be similar to that which we prepared for the visual system— they should provide a worthwhile frame of reference when attempting to respond to fire fighting requirements or in undertaking a systematic research program in any one of the areas: I have requested the no-cost extension.

Discuss?

- 1) We should have a trip report - *5/1/60 of Contract*
Problems
Approaches to Problem
Solution
- 2) *Waste of time!*
- 3) *Synthetic Analysis - Can they do any better than Jones?*
- 4) *I thought they were going to make Jones "incubate"?*